SONY

Professional Flat Panel Displays

PFM Series

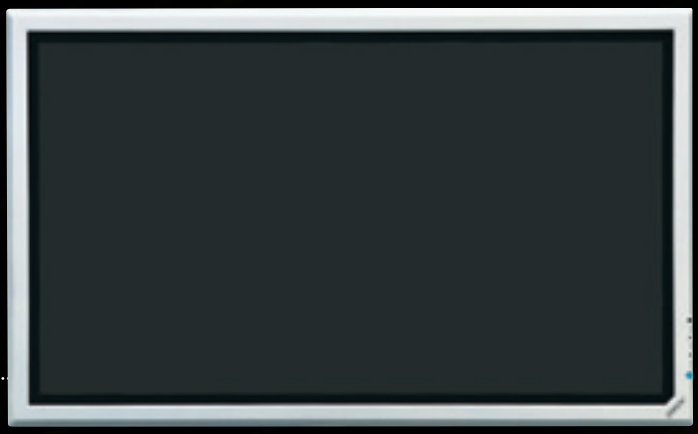
PFM-50C1E
PFM-42B2E/S
PFM-32C1E

Sony breathes life into the Flat Panel Display.

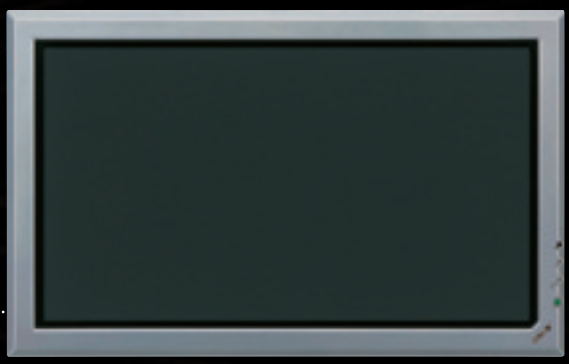
Sony unveils a striking lineup of 16:9 Professional Flat Panel Displays. State-of-the-art technology enables these new models to deliver outstanding picture quality from slim, lightweight, flat panels.
The PFM Series includes three models* : the 32-inch PFM-32C1E, with a resolution of 852 X 1024 pixels, the 42-inch PFM-42B2E/S, with a resolution of 1024 X 1024 pixels, and the 50-inch PFM-50C1E, with a resolution of 1365 x 768 pixels.
All three models include a range of versatile features for unsurpassed usability, and combine their superb performance with stylish design.
The 32-inch and 50-inch include a stereo digital amplifier to power optional external loudspeakers.
These new Flat Panel Displays are ideal for use in A/V presentations, as information displays in malls and airports, as background video monitors in restaurants, and for many other space-limited applications where high-brightness, high-quality images are essential.

PFM Series

PFM-50C1E



PFM-42B2E/S



PFM-32C1E

*The bezel of the PFM-42B2E/S is warm silver in colour.
*The bezels of the PFM-50C1E and PFM-32C1E are cool silver.

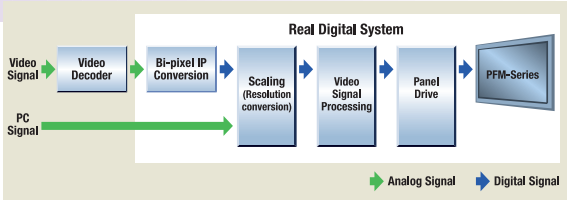
Brilliant Picture Quality

Real Digital System

PFM 32 inch PFM 50 inch

With the unique Sony digital signal processing technology of the Real Digital System, all signals are both input and processed digitally to give highly accurate image reproduction.

A new bi-pixel I/P (Interlace/Progressive) conversion circuit, developed exclusively for Sony flat panel displays, converts interlaced signals to progressive images of effectively higher definition. For film-originated sources, the Cinema Drive function (3-2 pull-down technology) is incorporated to help reproduce scene movement more naturally.



PFM 42 inch ** The PFM-42B2E/S delivers excellent, clear, smooth images thanks to the combination of its high-quality panel and Sony original I/P conversion technology.*

Multi-Layer, AR-Coated, Protection panel

PFM 32 inch PFM 42 inch PFM 50 inch

The anti-reflection (AR) coating on the glass protection panel reduces light reflection for clear, high-contrast pictures.

Multiple Inputs and High-performance Scan Converter

PFM 32 inch PFM 42 inch PFM 50 inch

PFM Series displays utilize high-definition, 16:9 flat panels that provide smooth, high-quality images across the screen. They accept signals ranging from standard composite video* to HDTV, DTV and RGB computer signals at up to UXGA resolution. A range of optional input adaptors is available, providing superb system flexibility. A built-in, high-performance scan converter offers optimum image quality whatever the signal format, providing accurate pixel-by-pixel image reproduction.

** An optional BKM-B10 Adaptor is required to accept composite video signals.*

Versatile and stylish

PFM 32 inch PFM 42 inch PFM 50 inch

With their simple, yet sophisticated appearance, the PFM Series of displays offer a stylish, high impact, way to convey messages. A silver bezel gives a sharp and sophisticated look that is right for any environment*. With excellent installation flexibility, these slim, lightweight displays provide large, superb quality images in minimal space.

**The bezel of the PFM-42B2E/S is warm silver in colour.*
**The bezels of the PFM-50C1E and PFM-32C1E are cool silver.*

Network Capability (with the optional BKM-B30NW Adaptor)

PFM 42 inch PFM 50 inch

The optional BKM-B30NW Network Adaptor provides an Ethernet 10Base-T/100Base-TX interface, plus a PC Card slot, to provide network connection for the PFM Series. Wired or wireless, these two PFM Series displays are ready to interface with the expanding world of visual network communications. This adaptor also provides a Y/C and a composite analog input.

• File sharing through a network

When these displays are connected to a network, files shared in that network can be retrieved and opened for display*.

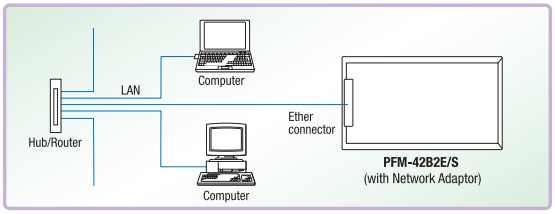
** Microsoft® PowerPoint® (PPT, PPS), Excel (XLS), JPEG, GIF, BMP and PNG files are supported.*

• Remote control from networked PCs

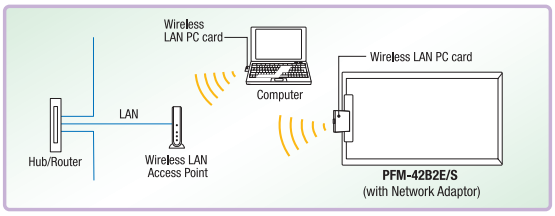
Any PC within a network can communicate with the 42-inch or 50-inch display via a web browser*. Operating presentations, organizing files and controlling both the display's functions and its setup parameters can all be done with a simple operation.

** System requirements*
OS: Microsoft Windows® 98, Windows 98 SE, Windows Me or Windows 2000
Web browser: Internet Explorer 4.0 or later or Netscape® Communicator 4.5x or 4.7x

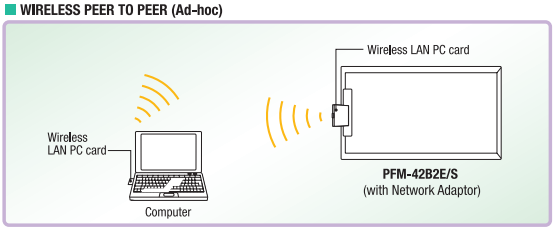
■ WIRED



■ WIRELESS INFRASTRUCTURE



■ WIRELESS PEER TO PEER (Ad-hoc)



PFM 32 inch PFM 42 inch PFM 50 inch *NOTE:These icons indicate which features are available for each model.*

High-quality Digital Audio Amplifiers

PFM 32 inch PFM 50 inch

These two models incorporate high-quality digital amplifiers for clear audio reproduction.
These amplifiers feed Speaker Out (L/R) connectors so that optional speakers can be connected to enhance the effectiveness and quality of presentations.

Other Features

- **Choice of remote control operation**
  Operational functions can be controlled from the supplied remote control unit* or via RS-232C.
  ** RM-971 for the PFM-32C1E and PFM-50C1E, RM-42B for the PFM-42B2E/S*

PFM 32 inch PFM 50 inch

RM-971

PFM 42 inch

RM-42B

- **Mounting freedom**
  All models can be mounted horizontally or vertically, fixed on an optional stand, on a wall or hung from the ceiling.

- **Selectable aspect ratio**
  Aspect ratios for Widescreen 16:9, Wide Zoom, Letter Box Zoom or Standard 4:3 displays are selectable.

- **Choice of color temperature setting**
  Up to three color temperature setting can be registered with the PFM-32C1E and PFM-50C1E, and up to six settings with the PFM-42B2E/S.

- **Size control**
  Picture size can be adjusted both vertically and horizontally.

- **Shift control**
  The center of the picture can be adjusted both vertically and horizontally.

- **Picture zoom**
  A section of the picture can be zoomed in for a closer look. This feature also allows up to 4x4 units to be used in video wall applications.

- **Dot phase adjustment**
  This function optimizes the scan converter sampling phase to the input signal.

- **Memory save/load**
  Stores up to twenty picture settings.

- **Six-language on-screen display**
  Quick and simple setup in English, French, German, Italian, Spanish and Japanese.

- **Closed Caption decoder**

- **Screen Saver functions**
  Picture Orbiting mode and Picture Inversion mode can be selected.

- **Power Saving function**

- **24-hour on/off timer**

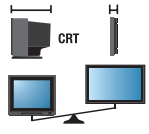
- **Worldwide power supply range**

PFM 32 inch PFM 50 inch

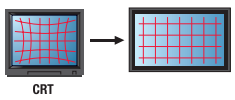
- **Picture Mode function**
  Three user presets and two fixed sets of display parameters are available.

- **Auto Wide function**
  The Auto Wide function automatically enlarges the video image to fill the 16:9 wide screen

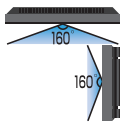
Flat Panel Advantages



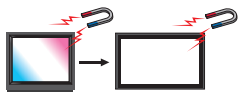
Slim, lightweight design for large, superb images in minimal space



Accurate image geometry from the linear alignment of the light-emitting pixels



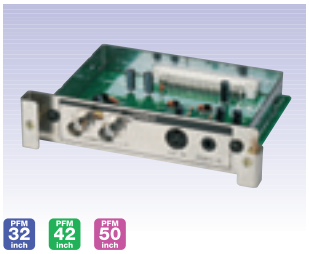
Wide, 160° viewing angle for large-audience appeal



Resistance to magnetic fields for drift-free color uniformity

The Sony PFM range adopts Plasma Display Panels (PDP). The versatility and flexibility of PDP technology is ideal for many applications.

Optional Accessories



PFM 32 inch PFM 42 inch PFM 50 inch

Video Input Adaptor
BKM-B10

- Composite input/output
- Y/C input
- Audio input (x1)

PFM 32 inch PFM 42 inch PFM 50 inch

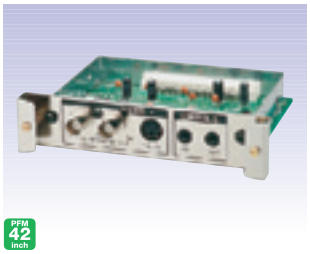
D4 Input Adaptor
BKM-B11

- Analog composite input (D4)
- Analog composite input (pin jack)
- Y/C input
- Audio input (X2)

PFM 42 inch

Component Video Input Adaptor
BKM-B12

- Analog component input (pin jack)
- Control-S input/output



PFM 42 inch

Composite Video Input and Control S Adaptor
BKM-B13

- Composite input/output
- Y/C input
- Control-S input/output

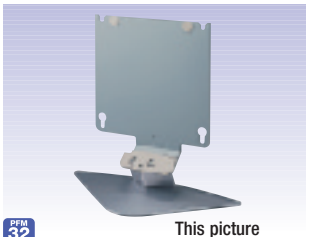
PFM 42 inch PFM 50 inch

Network Adaptor
BKM-B30NW

- Y/C input
- Analog composite input (pin jack)
- Ethernet 10Base-T/100Base-TX interface
- PC Card slot Type II
- USB port (A type) (x 2)

PFM 32 inch PFM 50 inch

Speaker System
SS-SP10A



PFM 32 inch

Monitor Stand
SU-P32C

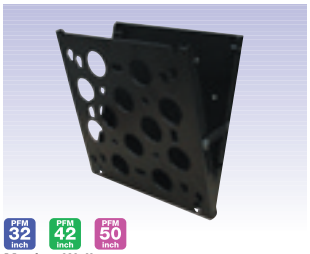
This picture shows SU-P32C.

PFM 42 inch

Monitor Stand
TS-PFM42

PFM 50 inch

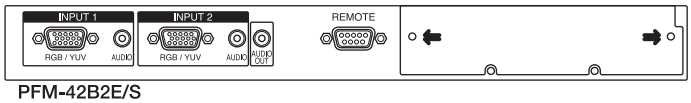
Monitor Stand
SU-P50C



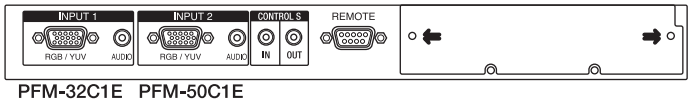
PFM 32 inch PFM 42 inch PFM 50 inch

Monitor Wallmount
WM-PFM01

Connector Panel



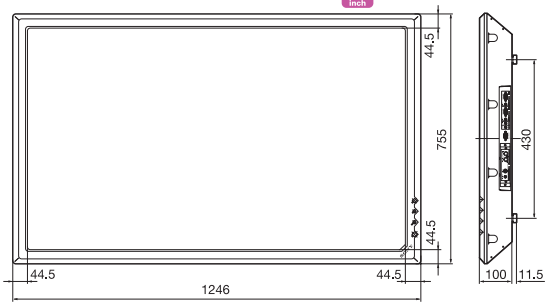
PFM-42B2E/S



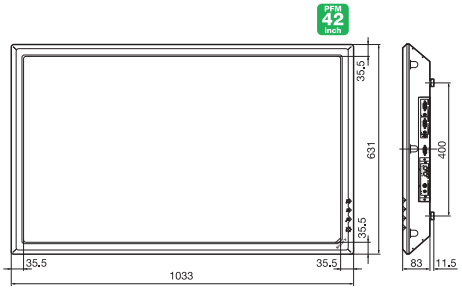
PFM-32C1E PFM-50C1E

Dimensions

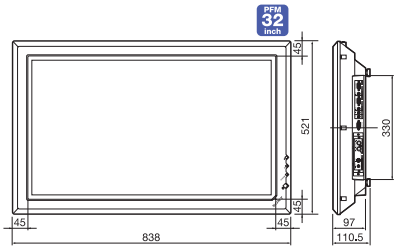
PFM 50 inch



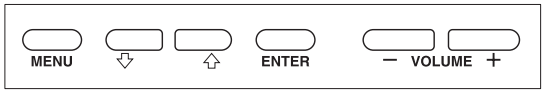
PFM 42 inch



PFM 32 inch

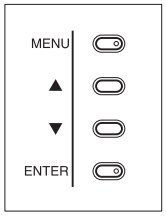


Control Panel



PFM 32 inch PFM 50 inch

The control panel is located on the top of the unit.



PFM 42 inch

The control panel is located on the rear of the unit.

Note:
The power switch is equipped on the front of the display.

Specifications

Picture Performance		PFM-32C1E	PFM-42B2E/S	PFM-50C1E
Panel	Resolution	852 x 1024 pixels	1024 x 1024 pixels	1365 x 768 pixels
	Pixel pitch	0.84 x 0.39 mm	0.90 x 0.51 mm	0.81 x 0.81 mm
	Active area (W/H)	715.68 x 399.36 mm	921.60 x 522.24 mm	1106 x 622 mm
	Viewable picture area	32-inch/820 mm (diagonal)	42-inch/1,058 mm (measured diagonally)	50-inch/1270 mm (diagonal)
	Colors	16.8 million colors simultaneously		
	Type	AC-type Plasma Display Panel with anti-reflection screen		
Color system		NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60, PAL-N	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60	NTSC, PAL, SECAM, NTSC4.43, PAL-M, PAL 60, PAL-N
Sampling rate			13.5 to 140 MHz	
Input/Output				
INPUT1/INPUT2		D-sub 15-pin		
	RGB	0.714 Vp-p/non-composite, 1.0 Vp-p/composite, 75 Ω		
	YUV	0.7 Vp-p/non-composite (U/V), 1.0 Vp-p/composite (Y), 75 Ω		
	AUDIO	Stereo mini jack, 500 mV rms, high impedance		
VIDEO[*1]	COMPOSITE IN	BNC, 1.0 Vp-p ±2 dB sync negative, 75 Ω automatic termination		
	Y/C IN	Mini DIN 4-pin		
	Y	1.0 Vp-p ±2 dB sync negative, 75 Ω		
	C	0.286 Vp-p ±2 dB sync negative (NTSC), 75 Ω 0.3 Vp-p ±2 dB sync negative (PAL), 75 Ω		
	AUDIO IN	Stereo mini jack, 500 mV rms, high impedance		
	COMPOSITE OUT	Loop-through BNC		
CONTROL S IN/OUT		Stereo mini jack, 5.0 Vp-p		Stereo mini jack, 5.0 Vp-p
REMOTE (RS-232C)		D-sub 9-pin		
Audio OUT			Stereo mini jack, 500 mV rms, high impedance	
SPEAKER OUT (L/R)		7 W + 7 W (impedance: 6 Ω)		7 W + 7 W (impedance: 6 Ω)
General				
Power requirements		AC 100 to 240 V, 50/60 Hz, 3.2 to 1.6 A	AC 100 to 240 V, 50/60 Hz, 4.5 to 1.8 A	AC 100 to 240 V, 50/60 Hz, 5.4 to 2.2 A
Power consumption		270 W	360 W	490 W
Operating temperature		0 to 35 °C (32 to 95 °F)		
Storage temperature		-10 to 40 °C (14 to 104 °F)		
Humidity		20 to 90 %, no condensation		
Dimensions[*2] **(W/H/D)**		838 x 521 x 97 mm (33 x 20 5/8 x 3 7/8 inches)	1033 x 631 x 83 mm (40 3/4 x 24 7/8 x 3 3/8 inches)	1246 x 755 x 100 mm (49 1/8 x 29 3/4 x 4 inches)
Mass		22 kg (48 lb 8 oz)	28.4 kg (62 lb 10 oz)	46.7 kg (103 lb 9 oz)
Supplied Accessories				
		AC Power Cord, AC Plug Holder (2), AA size Battery (2), Cable Holder A (2), Cable Holder B (4), Operating Instructions		
		Remote Commander RM-971	Remote Commander RM-42B	Remote Commander RM-971
Regulation Compliance				
		UL1950, CSA No.950 (c-UL), CE LVD (EN60950), FCC Class B, IC Class B, VCCI Class B, CE EMC (EN55022 Class-B, EN55024, EN61000-3-2, EN61000-3-3), C-Tick (AS/NZS 3548/95, AS/NZS 4252.1), CCIB, JEIDA, CB, KTL, MIC		

**1 The PFM-32C1E, PFM-42B2E and PFM-50C1E require an optional BKM-B10 adaptors to accept video signals.*
**2 Excluding protruding parts.*

Preset Signals

VIDEO	fH (kHz)	Frame rate*1 (Hz)	Resolution (Active)
NTSC	15.734	60	480 lines
PAL	15.625	50	575 lines
SECAM	15.625	50	575 lines
$NTSC_{4.43}$	15.734	60	480 lines
PAL60	15.734	60	480 lines
PAL-M	15.734	60	480 lines
PAL-N[*2]	15.734	60	480 lines
575/50I	15.625	50	575 lines
480/60I	15.734	60	480 lines
1080/24PsF	27.000	24	1080 lines
1080/50I	28.125	50	1080 lines
576/50P	31.250	50	576 lines
480/60P	31.469	60	480 lines
1080/60I	33.750	60	1080 lines
720/60P	45.000	60	720 lines

COMPUTER INPUT	fH (kHz)	fV (Hz)	Resolution (Active)
VGA-1 (VGA 350)	31.5	70.1	640 x 480 dots
640 x 350 @85 (VESA STD)	37.9	85.1	640 x 350 dots
640 x 400 @85 (VESA STD)	37.9	85.1	640 x 400 dots
640 x 480 @60 (VESA STD)	31.5	59.9	640 x 480 dots
Mac 13"	35.0	66.7	640 x 480 dots
640 x 480 @72 (VESA STD)	37.9	72.8	640 x 480 dots
640 x 480 @75 (VESA STD)	37.5	75.0	640 x 480 dots
640 x 480 @85 (VESA STD)	43.3	85.0	640 x 480 dots
852 x 480 @60 (I-O DATA)[*3]	31.7	60.0	852 x 480 dots
VGA (VGA TEXT)	31.5	70.1	720 x 400 dots
720 x 400 @85 (VESA STD)	37.9	85.0	720 x 400 dots
800 x 600 @56 (VESA STD)	35.2	56.3	800 x 600 dots
800 x 600 @60 (VESA STD)	37.9	60.3	800 x 600 dots
800 x 600 @72 (VESA STD)	48.1	72.2	800 x 600 dots
800 x 600 @75 (VESA STD)	46.9	75.0	800 x 600 dots
800 x 600 @85 (VESA STD)	53.7	85.1	800 x 600 dots
Mac 16"	49.7	74.6	832 x 624 dots
1024 x 768 @60 (VESA STD)	48.4	60.0	1024 x 768 dots
1024 x 768 @70 (VESA STD)	56.5	70.1	1024 x 768 dots
1024 x 768 @75 (VESA STD)	60.0	75.0	1024 x 768 dots
1024 x 768 @85 (VESA STD)	68.7	85.0	1024 x 768 dots
1152 x 864 @75 (VESA STD)	67.5	75.0	1152 x 864 dots
Mac 21"	68.7	75.1	1152 x 870 dots
1280 x 960 @60 (VESA STD)	60.0	60.0	1280 x 960 dots
1280 x 960 @85 (VESA STD)	85.9	85.0	1280 x 960 dots
1280 x 1024 @60 (VESA STD)	64.0	60.0	1280 x 1024 dots
1280 x 1024 @75 (VESA STD)	80.0	75.0	1280 x 1024 dots
1280 x 1024 @85 (VESA STD)[*4]	91.1	85.0	1280 x 1024 dots
1600 x 1200 @60 (VESA STD)[*5]	75.0	60.0	1600 x 1200 dots
856 x 480 @60 (Matrox)[*6]	30.2	60.0	856 x 480 dots
856 x 480 @59.6 (Matrox)[*6]	30.1	59.6	856 x 480 dots
856 x 480 @60.1 (Matrox)[*6]	30.1	60.1	856 x 480 dots

*1 Compatible with 1/1.001.
*2 Acceptable to the PFM-32C1E and PFM-50C1E
*3 With the graphic accelerator board of I-O DATA DEVICE, INC.
*4 Acceptable to the PFM-42B2E and PFM-50C1E
*5 Dot phase adjustment not applicable to UXGA (1600 x 1200).
*6 With the graphic card of Matrox Graphics Inc.

SONY

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